

## ABSTRACT

A path route modification method and a switching system using the method enable to prevent duplicated label setting in the route modification performed in a network.

- 5 For switching system, a packet switching system disclosed includes a table for mapping either an input label value or a set of input label value and input port to an output port and an output label, wherein a state variable is set for either the input label value or the set of input label
- 10 value and input port mapped in the table to represent either of the three states of 'not reserved', 'reserved', and 'double reserved'; and a packet switch for packet-switching packet data according to the information mapped in the table.

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